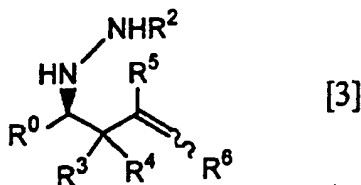
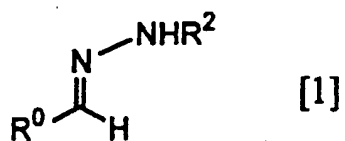


AMENDMENTS TO THE CLAIMS

1. (Original) A method for producing enantioselectively allylated N-acylhydrazine represented by the following general formula (3) :

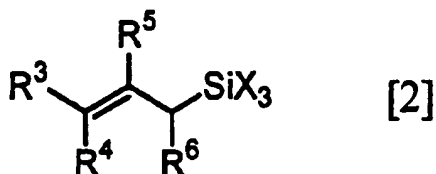


wherein R⁰ represents an optionally substituted hydrocarbon group, an optionally substituted heterocyclic group or -COOR¹ (where R¹ represents a hydrocarbon group); R² represents an acyl group; R³ and R⁴ each represent a hydrogen atom, or one of R³ and R⁴ represents a hydrogen atom and the other represents a hydrocarbon group; R⁵ and R⁶ each independently represent a hydrogen atom or a hydrocarbon group; and R⁴ and R⁶ may together form an alkylene ring or a heterocycle, the method characterized by reacting, in the presence of chiral phosphine oxide, N-acylhydrazone represented by the following general formula (1) :



wherein R⁰ and R² are as defined above,

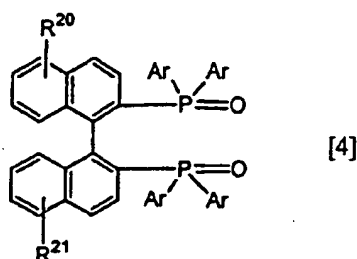
with an allylating reagent represented by the following general formula (2) :



wherein R³, R⁴, R⁵, and R⁶ are as defined above; R⁴ and R⁶ may together form an alkylene ring or a heterocycle; and three Xs each represent a chlorine atom or a bromine atom, or two of the three Xs each represent a chlorine atom or a bromine atom and the other one represents an alkyl group.

2. (Original) The method according to claim 1, wherein R^0 in the general formulas (1) and (3) is $-COOR^1$ (where R^1 represents a hydrocarbon group).

3. (Currently amended) The method according to claim 1-~~or~~2, wherein the chiral phosphine oxide is (R)- or (S)-2,2'-bis(diarylphosphino)-1,1'-binaphthyl dioxide represented by the following general formula (4):



wherein R^{20} and R^{21} each independently represent a hydrogen atom, an alkyl group, an alkoxy group, or a halogen atom; and Ar represents an aryl group.

4. (Original) The method according to claim 3, wherein R^{20} and R^{21} in the general formula (4) each represent a hydrogen atom.

5. (Currently amended) The method according to claim 3-~~or~~4, wherein Ar in the general formula (4) is a phenyl group.

6. (Currently amended) The method according to claim 3-~~or~~4, wherein Ar in the general formula (4) is a tolyl group.

7. (Currently amended) The method according to ~~any one of claims 1 to 6~~ claim 1, further comprising adding phosphine as an additive to the reaction system.

8. (Original) The method according to claim 7, wherein the phosphine is trialkylphosphine, triarylphosphine, or alkyl diarylphosphine.

9. (Currently amended) The method according to ~~any one of claims 1 to 8~~ claim 1, wherein the allylating reagent represented by the general formula (2) is crothyltrichlorosilane.

10. (Currently amended) The method according to ~~any one of claims 1 to 8~~ claim 1, wherein the allylating reagent represented by the general formula (2) is 2-methyl-2-butenyltrichlorosilane.

11. (Currently amended) The method according to ~~any one of claims 1 to 8~~ claim 1, wherein the allylating reagent represented by the general formula (2) is allyltrichlorosilane.

12. (Currently amended) A method for producing alloisoleusine, which uses as a key reaction, the asymmetric allylation reaction according to the method of ~~any one of claims 1 to 9~~ claim 1.